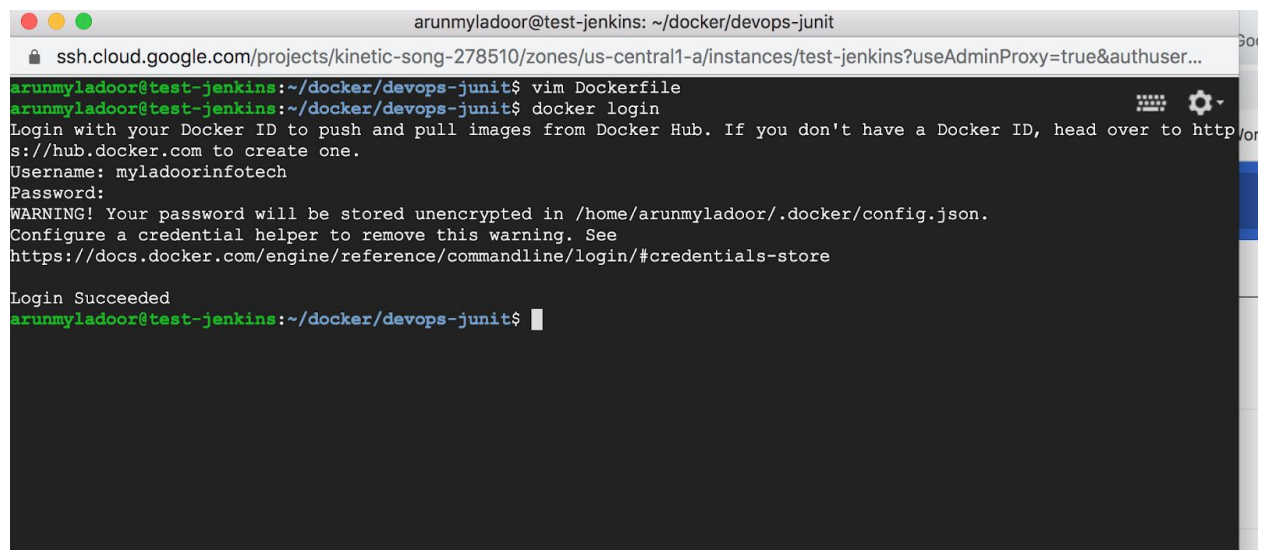


Spring Boot App

```
2020-07-22 09:56:00.244 INFO 1 --- [nio-9090-exec-1]
o.s.web.servlet.DispatcherServlet : Completed initiali
zation in 12 ms
2020-07-22 09:56:33.561 INFO 1 --- [ Thread-3]
o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down Exec
utorService 'applicationTaskExecutor'
09:57:26.018 [main] INFO com.Application - Main method has been invoked
.
/\ \ / ' ( ) \ \ \ \
( ( ) \ | ' | ' | | ' \ / ` | \ \ \ \
\ \ / ) | | ) | | | | | | ( | | ) ) )
' | | . | | | | | | \ , | / / / /
=====| |=====| /=/ / / /
:: Spring Boot :: (v2.1.7.RELEASE)
2020-07-22 09:57:27.695 INFO 1 --- [ main] com.Application
: Starting Applicati
on v0.0.1-SNAPSHOT on 35f82c4920ab with PID 1 (/app.jar started by root in /)
2020-07-22 09:57:27.705 INFO 1 --- [ main] com.Application
: No active profile
set, falling back to default profiles: default
2020-07-22 09:57:31.687 INFO 1 --- [ main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized
with port(s): 9090 (http)
2020-07-22 09:57:31.804 INFO 1 --- [ main]
o.apache.catalina.core.StandardService : Starting service [
Tomcat]
2020-07-22 09:57:31.805 INFO 1 --- [ main]
org.apache.catalina.core.StandardEngine : Starting Servlet e
ngine: [Apache Tomcat/9.0.22]
2020-07-22 09:57:32.065 INFO 1 --- [ main]
o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Sprin
g embedded WebApplicationContext
2020-07-22 09:57:32.066 INFO 1 --- [ main]
o.s.web.context.ContextLoader : Root WebApplicatio
nContext: initialization completed in 4189 ms
2020-07-22 09:57:32.697 INFO 1 --- [ main]
o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing Execu
torService 'applicationTaskExecutor'
2020-07-22 09:57:32.926 INFO 1 --- [ main]
o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome pag
e: class path resource [static/index.html]
```

```
2020-07-22 09:57:33.265 INFO 1 --- [main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on
port(s): 9090 (http) with context path '/'
2020-07-22 09:57:33.269 INFO 1 --- [main] com.Application
: Started Applicatio
n in 6.719 seconds (JVM running for 8.681)
2020-07-22 09:57:47.625 INFO 1 --- [nio-9090-exec-1]
o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Sprin
g DispatcherServlet 'dispatcherServlet'
2020-07-22 09:57:47.625 INFO 1 --- [nio-9090-exec-1]
o.s.web.servlet.DispatcherServlet : Initializing Servl
et 'dispatcherServlet'
2020-07-22 09:57:47.637 INFO 1 --- [nio-9090-exec-1]
o.s.web.servlet.DispatcherServlet : Completed initiali
zation in 12 ms
```



The screenshot shows a terminal window titled 'arunmylador@test-jenkins: ~/docker/devops-junit'. The terminal content is as follows:

```
arunmylador@test-jenkins:~/docker/devops-junit$ vim Dockerfile
arunmylador@test-jenkins:~/docker/devops-junit$ docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to http://
s://hub.docker.com to create one.
Username: myladorinfotech
Password:
WARNING! Your password will be stored unencrypted in /home/arunmylador/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
arunmylador@test-jenkins:~/docker/devops-junit$
```

```
ssh.cloud.google.com/projects/kinetic-song-278510/zones/us-central1-a/instances/test-jenkins?useAdminProxy=true&authuser...
---> 259f1eab09fe
Step 6/8 : RUN echo "Creation of your docker image is in progress, please hold on for a moment"
---> Running in ff41eee4640f
Creation of your docker image is in progress, please hold on for a moment
Removing intermediate container ff41eee4640f
---> 6b7eed2018d2
Step 7/8 : ENTRYPOINT ["java", "-jar", "app.jar"]
---> Running in 31a398465311
Removing intermediate container 31a398465311
---> 32783c02blad
Step 8/8 : MAINTAINER "ucearun@gmail.com"
---> Running in 6d1a3e855e5e
Removing intermediate container 6d1a3e855e5e
---> 1ebb83276409
Successfully built 1ebb83276409
arunmylador@test-jenkins:~/docker/devops-junit$ docker build -t myladorinfotech/docker-demo:1 .
Sending build context to Docker daemon 19.3MB
Step 1/8 : FROM openjdk:8-jdk-alpine
---> a3562aa0b991
Step 2/8 : VOLUME /tmp
---> Using cache
---> 47c0864dc03e
Step 3/8 : EXPOSE 8888
---> Using cache
---> 30f125ec8fcc
Step 4/8 : ARG JAR_FILE=/target/*.jar
---> Using cache
---> 22735795122b
Step 5/8 : COPY ${JAR_FILE} app.jar
---> Using cache
---> 259f1eab09fe
Step 6/8 : RUN echo "Creation of your docker image is in progress, please hold on for a moment"
---> Using cache
---> 6b7eed2018d2
Step 7/8 : ENTRYPOINT ["java", "-jar", "app.jar"]
---> Using cache
---> 32783c02blad
Step 8/8 : MAINTAINER "ucearun@gmail.com"
---> Using cache
---> 1ebb83276409
Successfully built 1ebb83276409
Successfully tagged myladorinfotech/docker-demo:1
arunmylador@test-jenkins:~/docker/devops-junit$
```

```
ssh.cloud.google.com/projects/kinetic-song-278510/zones/us-central1-a/instances/test-jenkins?useAdminProxy=true&aut
6beb5ffb898ef703d30cc6cafb2e3897c8a864e8bf54504a5fc155952903cab9
arunmylador@test-jenkins:~/docker/devops-junit$ curl http://34.71.216.60:8082/
^C
arunmylador@test-jenkins:~/docker/devops-junit$ curl http://localhost:8082
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>DevOps World</title>

</head>
<body style="background-color:aqua;text-align:center">
<h1>Congratulations!!! Welcome to the World of DevOps</h1>
</body>
</html>
arunmylador@test-jenkins:~/docker/devops-junit$ docker rm 6beb5ffb898ef703d30cc6cafb2e3897c8a864e8
2903cab9
Error response from daemon: You cannot remove a running container 6beb5ffb898ef703d30cc6cafb2e3897c8a864e8
fc155952903cab9. Stop the container before attempting removal or force remove
arunmylador@test-jenkins:~/docker/devops-junit$ docker stop 6beb5ffb898ef703d30cc6cafb2e3897c8a864e8bf545
952903cab9
6beb5ffb898ef703d30cc6cafb2e3897c8a864e8bf54504a5fc155952903cab9
arunmylador@test-jenkins:~/docker/devops-junit$ curl http://localhost:8082
curl: (7) Failed to connect to localhost port 8082: Connection refused
arunmylador@test-jenkins:~/docker/devops-junit$ type Dockerfile
-bash: type: Dockerfile: not found
arunmylador@test-jenkins:~/docker/devops-junit$ cat Dockerfile
FROM openjdk:8-jdk-alpine

VOLUME /tmp

EXPOSE 8888

ARG JAR_FILE=/target/*.jar

COPY ${JAR_FILE} app.jar

RUN echo "Creation of your docker image is in progress, please hold on for a moment"

ENTRYPOINT ["java", "-jar", "app.jar"]

MAINTAINER "ucearun@gmail.com"

arunmylador@test-jenkins:~/docker/devops-junit$
```

```
ssh.cloud.google.com/projects/kinetic-song-278510/zones/us-central1-a/instances/test-jenkins?useAdminProxy=true&authuser...
=====|_|=====|_|_/_/_/_/
:: Spring Boot :: (v2.1.7.RELEASE)

2020-07-22 08:37:25.239 INFO 1 --- [main] com.Application : Starting Application
on v0.0.1-SNAPSHOT on 22f7c9425c4e with PID 1 (/app.jar started by root in /)
2020-07-22 08:37:25.249 INFO 1 --- [main] com.Application : No active profile
set, falling back to default profiles: default
2020-07-22 08:37:29.436 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized
with port(s): 9090 (http)
2020-07-22 08:37:29.550 INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [
Tomcat]
2020-07-22 08:37:29.560 INFO 1 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet e
ngine: [Apache Tomcat/9.0.22]
2020-07-22 08:37:29.825 INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Sprin
g embedded WebApplicationContext
2020-07-22 08:37:29.832 INFO 1 --- [main] o.s.web.context.ContextLoader : Root WebApplicatio
nContext: initialization completed in 4411 ms
2020-07-22 08:37:30.486 INFO 1 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing Execu
torService 'applicationTaskExecutor'
2020-07-22 08:37:30.698 INFO 1 --- [main] o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome pag
e: class path resource [static/index.html]
2020-07-22 08:37:31.047 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on
port(s): 9090 (http) with context path ''
2020-07-22 08:37:31.052 INFO 1 --- [main] com.Application : Started Application
in 7.035 seconds (JVM running for 8.018)
^C2020-07-22 08:37:49.363 INFO 1 --- [Thread-3] o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down Ex
ecutorService 'applicationTaskExecutor'
arunmylador@test-jenkins:~/docker/devops-junit$ docker run -p 8082:9090 -d myladorinfotech/docker-demo:1
6beb5ffb898ef703d30cc6cafb2e3897c8a864e8bf54504a5fc155952903cab9
arunmylador@test-jenkins:~/docker/devops-junit$ curl http://34.71.216.60:8082/
^C
arunmylador@test-jenkins:~/docker/devops-junit$ curl http://localhost:8082
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>DevOps World</title>

</head>
<body style="background-color:aqua;text-align:center">
<h1>Congratulations!!! Welcome to the World of DevOps</h1>
</body>
</html>
arunmylador@test-jenkins:~/docker/devops-junit$
```

```
bash: type: Dockerfile: not found
arunmylador@test-jenkins:~/docker/devops-junit$ cat Dockerfile
FROM openjdk:8-jdk-alpine

VOLUME /tmp

EXPOSE 8888

ARG JAR_FILE=/target/*.jar

COPY ${JAR_FILE} app.jar

RUN echo "Creation of your docker image is in progress, please hold on for a moment"

ENTRYPOINT ["java", "-jar", "app.jar"]

MAINTAINER "ucearun@gmail.com"

arunmylador@test-jenkins:~/docker/devops-junit$ docker push myladorinfotech/docker-demo:1
The push refers to repository [docker.io/myladorinfotech/docker-demo]
2e7f1a0a2610: Pushed
ceaf9e1ebef5: Mounted from library/openjdk
9b9b7f3d56a0: Mounted from library/openjdk
f1b5933fe4b5: Mounted from library/openjdk
1: digest: sha256:2e3d015b64913b37051aaf429a96b10b45c5c9504c754b041acf8f02a6905fa8 size: 1159
arunmylador@test-jenkins:~/docker/devops-junit$
```

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hub.docker.com

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Search for great content (e.g., mysql)

Explore

Repositories

Organizations

Get started

myladorinfotech

Search by repository name...

Create Repository

myladorinfotech / tomcatwebapp

Updated a month ago

☆ 0

↓ 5

Private

myladorinfotech / my-image-test

Updated a month ago

☆ 0

↓ 3

Public


myladorinfotech / tomcat01

Updated 3 months ago

☆ 0

↓ 5

Public



Tip: Not finding your repository? Try switching namespace via the top left dropdown.



Search for great content (e.g., mysql)

Explore Repositories Organizations

myladorinfotech

Search by repository name...

Create Repository

myladorinfotech / **docker-demo**
Updated 4 minutes ago

☆ 0

↓ 1

Public

myladorinfotech / **tomcatwebapp**
Updated a month ago

☆ 0

↓ 5

Private

myladorinfotech / **my-image-test**
Updated a month ago

☆ 0

↓ 3

Public

myladorinfotech / **tomcat01**
Updated 3 months ago

☆ 0

↓ 5

Public



Tip: Not finding your repository? Try switching namespace via the top left dropdown.

Docker compose with War file and mysql

```
arunmylador@test-jenkins: ~/jenkins/war-test
ssh.cloud.google.com/projects/kinetic-song-278510/zones/us-central1-a/instances/test-jenkins?useAdminProxy=true&authuser...
arunmylador@test-jenkins:~/jenkins/war-test$ cat docker-compose.yml
version: '3'
services:
  mysql:
    image: mysql:latest
    restart: always
    environment:
      MYSQL_DATABASE: 'mydb'
      MYSQL_USER: 'user'
      MYSQL_ROOT_PASSWORD: 'abced'
    volumes:
      - ./mysql:/var/lib/mysql
    ports:
      - '3306:3306'
    expose:
      - '3306'

  tomcat:
    image: tomcat:latest
    container_name: tomcat-web
    volumes:
      - ./target/war-test.war:/usr/local/tomcat/webapps/war-test.war
    ports:
      - "8084:8080"
    expose:
      - '8084'
    links:
      - mysql

arunmylador@test-jenkins:~/jenkins/war-test$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
arunmylador@test-jenkins:~/jenkins/war-test$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
arunmylador@test-jenkins:~/jenkins/war-test$
```



```
Chrome File Edit View History Bookmarks People Tab Window Help
arunmylador@test-jenkins: ~/jenkins/war-test
ssh.cloud.google.com/projects/kinetic-song-278510/zones/us-central1-a/instances/test-jenkins?useAdminProxy=true&authuser...
arunmylador@test-jenkins:~/jenkins/war-test$ cat docker-compose.yml
version: '3'
services:
  mysql:
    image: mysql:latest
    restart: always
    environment:
      MYSQL_DATABASE: 'mydb'
      MYSQL_USER: 'user'
      MYSQL_ROOT_PASSWORD: 'abcd'
    volumes:
      - ./mysql:/var/lib/mysql
    ports:
      - '3306:3306'
    expose:
      - '3306'

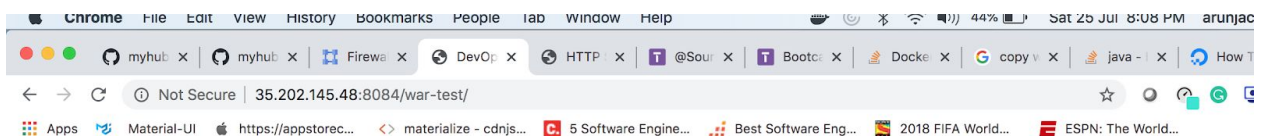
  tomcat:
    image: tomcat:latest
    container_name: tomcat-web
    volumes:
      - ./target/war-test.war:/usr/local/tomcat/webapps/war-test.war
    ports:
      - "8084:8080"
    expose:
      - '8084'
    links:
      - mysql

arunmylador@test-jenkins:~/jenkins/war-test$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
NAMES
arunmylador@test-jenkins:~/jenkins/war-test$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
arunmylador@test-jenkins:~/jenkins/war-test$ curl http://localhost:8084
curl: (7) Failed to connect to localhost port 8084: Connection refused
arunmylador@test-jenkins:~/jenkins/war-test$
```

```
arunmylador@test-jenkins: ~/jenkins/war-test
ssh.cloud.google.com/projects/kinetic-song-278510/zones/us-central1-a/instances/test-jenkins?useAdminProxy=true&authuser...
copy X
volumes:
- ./target/war-test.war:/usr/local/tomcat/webapps/war-test.war
ports:
- "8084:8080"
expose:
- '8084'
links:
- mysql
arunmylador@test-jenkins:~/jenkins/war-test$ docker-compose up -d
Creating network "wartest_default" with the default driver
Pulling mysql (mysql:latest)...
latest: Pulling from library/mysql
6ec8c9369e08: Pull complete
177e5de89054: Pull complete
ab6ccb86eb40: Pull complete
e1ee78841235: Pull complete
09cd86ccee56: Pull complete
78bea0594a44: Pull complete
caf5f529ae89: Pull complete
cf0fc09f046d: Pull complete
4ccd5b05a8f6: Pull complete
76d29d8de5d4: Pull complete
8077a91f5d16: Pull complete
922753e827ec: Pull complete
Digest: sha256:fb6a6a26111ba75f9e8487db639bc5721d4431beba4cd668a4e922b8f8b14acc
Status: Downloaded newer image for mysql:latest
Pulling tomcat (tomcat:latest)...
latest: Pulling from library/tomcat
31dd5ebca5ef: Pull complete
3ed641c4ae98: Pull complete
bcd57146431e: Pull complete
ac34a4d7c330: Pull complete
d29274a3f575: Pull complete
f21ec44b2df0: Pull complete
827d5eebd0ca: Pull complete
eecf9ee16d98: Pull complete
b7aa0cfff91c: Pull complete
9015e043ceaa: Pull complete
Digest: sha256:7007bd3c567f35b0fa8b3972a506575a52610f2b55d21580fc6f99ebcd39674d
Creating wartest_mysql_1 ... done
Creating tomcat-web ... done
Creating tomcat-web ...
arunmylador@test-jenkins:~/jenkins/war-test$
```

```
arunmylador@test-jenkins: ~/jenkins/war-test
ssh.cloud.google.com/projects/kinetic-song-278510/zones/us-central1-a/instances/test-jenkins?useAdminProxy=true&authuser...
latest: Pulling from library/tomcat
31dd5ebca5ef: Pull complete
3ed641c4ae98: Pull complete
bcd57146431e: Pull complete
ac34a4d7c330: Pull complete
d29274a3f575: Pull complete
f21ec44b2df0: Pull complete
827d5eebd0ca: Pull complete
eecf9ee16d98: Pull complete
b7aa0cfff91c: Pull complete
9015e043ceaa: Pull complete
Digest: sha256:7007bd3c567f35b0fa8b3972a506575a52610f2b55d21580fc6f99ebed39674d
Creating wartest_mysql_1 ... done
Creating tomcat-web ... done
Creating tomcat-web ...
arunmylador@test-jenkins:~/jenkins/war-test$ curl http://localhost:8084
<!doctype html><html lang="en"><head><title>HTTP Status 404 - Not Found</title><style type="text/css">body {font-fa
mily:Tahoma,Arial,sans-serif;} h1, h2, h3, b {color:white;background-color:#525D76;} h1 {font-size:22px;} h2 {font-
size:16px;} h3 {font-size:14px;} p {font-size:12px;} a {color:black;} .line {height:1px;background-color:#525D76;bo
rder:none;}</style></head><body><h1>HTTP Status 404 - Not Found</h1><hr class="line" /><p><b>Type</b> Status Report
</p><p><b>Description</b> The origin server did not find a current representation for the target resource or is not
willing to disclose that one exists.</p><hr class="line" /><h3>Apache Tomcat/9.0.37</h3></body></html>arunmylador
@test-jenkins:~/jenkins/war-test$ curl http://localhost:8084/
<!doctype html><html lang="en"><head><title>HTTP Status 404 - Not Found</title><style type="text/css">body {font-fa
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size:16px;} h3 {font-size:14px;} p {font-size:12px;} a {color:black;} .line {height:1px;background-color:#525D76;bo
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</p><p><b>Description</b> The origin server did not find a current representation for the target resource or is not
willing to disclose that one exists.</p><hr class="line" /><h3>Apache Tomcat/9.0.37</h3></body></html>arunmylador
@test-jenkins:~/jenkins/war-test$ curl http://localhost:8084/war-test
arunmylador@test-jenkins:~/jenkins/war-test$ curl http://localhost:8084/war-test/
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>DevOps World</title>

</head>
<body style="background-color:aqua;text-align:center">
<h1>Congratulations!!! Welcome to the World of DevOps</h1>
</body>
</html>
arunmylador@test-jenkins:~/jenkins/war-test$
```



Congratulations!!! Welcome to the World of DevOps

```

mily:Tahoma,Arial,sans-serif;} h1, h2, h3, b {color:white;background-color:#525D76;} h1 {font-size:22px;} h2 {font-
size:16px;} h3 {font-size:14px;} p {font-size:12px;} a {color:black;} .line {height:1px;background-color:#525D76;bo
rder:none;}</style></head><body><h1>HTTP Status 404 - Not Found</h1><hr class="line" /><p><b>Type</b> Status Report
</p><p><b>Description</b> The origin server did not find a current representation for the target resource or is not
willing to disclose that one exists.</p><hr class="line" /><h3>Apache Tomcat/9.0.37</h3></body></html><div>
arunmylador@test-jenkins:~/jenkins/war-test$ curl http://localhost:8084/war-test
arunmylador@test-jenkins:~/jenkins/war-test$ curl http://localhost:8084/war-test/
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>DevOps World</title>

</head>
<body style="background-color:aqua;text-align:center">
<h1>Congratulations!!! Welcome to the World of DevOps</h1>
</body>
</html>
arunmylador@test-jenkins:~/jenkins/war-test$ docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED            STATUS              PORTS
ee7e24833260        tomcat:latest      "catalina.sh run"       16 minutes ago    Up 16 minutes      8084/tcp,
0.0.0.0:8084->8080/tcp tomcat-web
fd8884385db9        mysql:latest       "docker-entrypoint.s..." 16 minutes ago    Up 16 minutes      0.0.0.0:33
06->3306/tcp, 33060/tcp wartest_mysql_1
arunmylador@test-jenkins:~/jenkins/war-test$ docker images
REPOSITORY          TAG                IMAGE ID             CREATED            SIZE
tomcat               latest            b4f6a90c69a4        2 days ago        647MB
mysql                latest            e3fcc9e1cc04        2 days ago        544MB
arunmylador@test-jenkins:~/jenkins/war-test$

```